Figure 1.

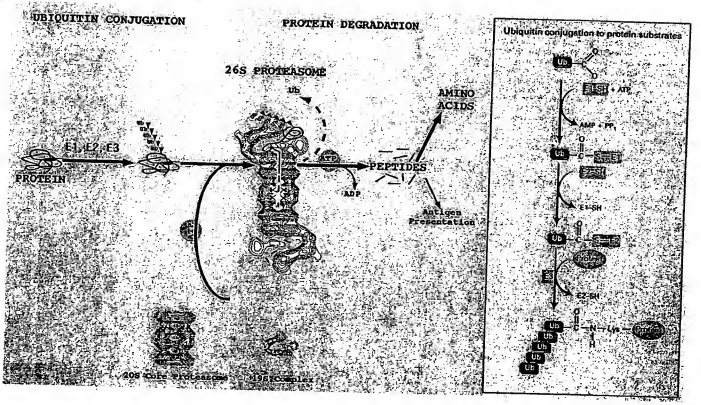
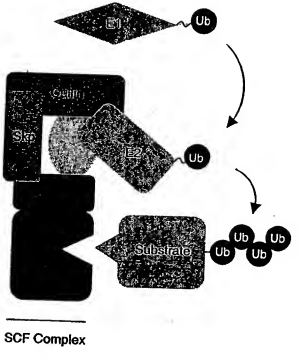

UBIQUITIN CONJUGATION
PROTEIN DEGRADATION
26S PROTEASOME
Ub
AMINO ACIDS
E1-E2-E3
PROTEIN
ATP
PEPTIDES
ADP
Antigen Presentation
Ubiquitin conjugation to protein substrates
Ub
E1-SH
+ ATP
AMP + PPi
E2-SH
E3
E2-SH
Ub
Ub
Ub

Figure 2.



SCF Complex

10050686.050502

Figur 3.

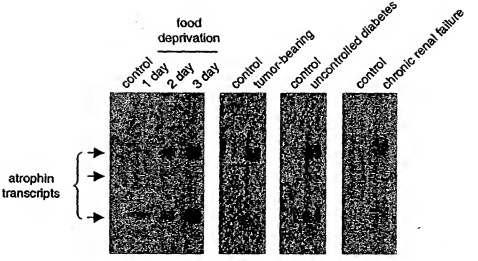


Figure 4.

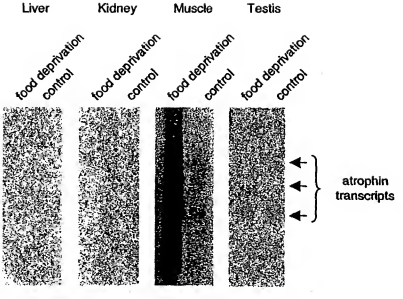

Liver
Kidney
Muscle
Testis
food deprivation
control
food deprivation
control
food deprivation
control
food deprivation
control
atrophin
transcripts

Figure 5.

A

CCCACGCGTCCGGCTAAGAGCAGGCGGCTCTTGGCGGCAACAAAGAGACGGGGCAGCGGCCCGGGATAAAT
ACTGCGCTCGGGCAGCCGCTCAGCATTCCCAGAGTCAGGAGGCGACCTTCCCCAACGCCTGCGCCCCTGTG
AGTGCAAGGATCCCCGCGCCCACCCAGGATCCCGCAGCCCTCCACACTAGTTGACCCACTCTTGTCCCGGTC
GCCGCCTGCGTCGTTCCCCAGCATCTTCCCAACGCGCCGCATACCCTGGGCAAGCCAGGCCGGTTCCTGGC
TGTCAATCCGTCCCGTCCGTCGGTCGCGTCCGCGCTCTGTACCATGCCGTTCCTTGGGCAGGACTGGCG
GTCCCCGGGCCAGAGCTGGGTGAAGACGGCGGACGGCTGGAAGCGCTTCTTGGATGAGAAAAGCG
GCAGCTTCGTGAGCGACCTCAGCAGTTACTGCAACAAGGAGGTATACAGTAAGGAGAATCTGTTC
AGCAGCCTGGACTACGACGTCGCAGCCAAGAAGAGAAAGAAAGACATTCAGAACAGCAAAACCAA
AACTCAGTACTTCCATCAAGAAAAGTGGATCTATGTTCACAAAGGAAGTACGAAGGAGCGCCATG
GATACTGTACTTTGGGGGAAGCTTTCAACAGACTGGACTTCTCAACTGCCATTCTGGATTCCAGA
AGATTTAACTACGTGGTCCGGCTGTTGGAGCTGATAGCAAAGTCACAGCTCACATCCCTGAGTGG
CATCGCCCAAAAGAACTTCATGAATATTTTGGAAAAAGTGGTACTGAAAGTCCTTGAAGACCAGC
AAAACATTAGACTAATAAGGGAACTACTCCAGACCCTCTACACATCCTTATGTACACTGGTCCAA
AGAGTCGGCAAGTCTGTGCTGGTCGGGAACATTAACATGTGGGTGTATCGGATGGAGACGATTCT
CCACTGGCAGCAGCAGCTGAACAACATTCAGATCACCAGGCCTGCCTTCAAAGGCCTCACCTTCA
CTGACCTGCCTTTGTGCCTACAACTGAACATCATGCAGAGGCTGAGCGACGGGCGGGACCTGGTC
AGCCTGGGCCAGGCAGCCCCAGACCTGCATGTGCTCAGTGAGGACCGGCTACTGTGGAAGAGACT
CTGCCAGTACCACTTCTCAGAGAGGCAGATTCGCAAGCGTTTGATCTTGTCTGACAAAGGGCAGC
TGGATTGGAAGAAGATGATTTTAAGCTTGTACGATGTTACCCAAGAAGAGAGCAGTATGGGGTC
ACCCTGCAGCTTTGCAAACACTGCCACATTCTCTCCTGGAAGGGCACTGACCATCCGTGCACGGC
CAACAACCCAGAGAGCTGCTCCGTCTCACTTTCCCCTCAAGACTTTATCAATTTGTTCAAGTTCT
GAATAATCCCAGCACACGACAACACTTCAGAAGGCTTCTAATTGGATGGCTGGGAGTTCGGGACACTTCAT
TTGTAAATAGTGTACATTTTAAGCATTGGCTTGAAACTGCGGGGGATACGTCATTGAGGAGACGTTGGCGG
GGAAGAGATGCAGTTGCCGATGGAAATTTACAAATGTGAATTCCACATGAGAACTGGTACAGAAAAGCAGA
AATACTGTAAATAGACTTTTTATTTTCCCTAACGATTTGCAAGCAAGACTATAAAGGCAAGAACTCTATGT
CAGCCATGGAAACGGAGTCCTCTTGAGTTCCCTAGGAAGAAAAAGGCAAAAAGCTCAAAAACAAGATGGAA
CACTCTGTTTACAATGTGAAAATGTTGTTAAGACAAAAATAAGGAAGAAGGAAGATGAACGCTGTCATTGA
GAAACCCTTGGGCTTGGGTTTGGATTCGGGGTTTGTTTTCAGCAGGCCAAGAAGTATATCCACCTGAAAT
CTGCACGGGCTTAAGTCCTTATCCTATGAAGATGCCACACAATGGTCTACCTCTAAAAGCATAGCGTGTTC
TCTGGCAACATACTTTATCTGGGAGGCAATGTCTGTGTTTCATGTAAGTTCTATACTCTGTGAAGTGATCT
AAGATGGGAAGGCTGTTAGGAAAAAAAAAAAAAAA

B

MPFLGQDWRSPGQSWVKTADGWKRFLDEKSGSFVSDLSSYCNKEVYSKENLFSSLDYDVAAKKRKKDIQNS
KTKTQYFHQEKWIYVHKGSTKERHGYCTLGEAFNRLDFSTAILDSRRFNYVVRLLELIAKSQLTSLSGIAQ
KNFMNILEKVVLKVLEDQQNIRLIRELLQTLYTSLCTLVQRVGKSVLVGNINMWVYRMETILHWQQQLNNI
QITRPAFKGLTFTDLPLCLQLNIMQRLSDGRDLVSLGQAAPDLHVLSEDRLLWKRLCQYHFSERQIRKRLI
LSDKGQLDWKKMYPKLVRCYPRREQYGVTLQLCKHCHILSWKGTDHPCTANNPESCSVSLSPQDFINLFKF

C